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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/965,341	09/27/2001	Samir S. Soliman	010427	3719
	7590 07/08/200 INCORPORATED	9	EXAMINER	
5775 MOREHO	OUSE DR.		PAN, YUWEN	
SAN DIEGO, CA 92121			ART UNIT	PAPER NUMBER
			2618	
			NOTIFICATION DATE	DELIVERY MODE
			07/08/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)	
	09/965,341	SOLIMAN, SAMIR S.	
Office Action Summary	Examiner	Art Unit	
	YUWEN PAN	2618	
The MAILING DATE of this communication ap Period for Reply	opears on the cover sheet with the	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPLAY WHICHEVER IS LONGER, FROM THE MAILING IDENTIFY OF THE MONTHS FROM THE MAILING IDENTIFY OF THE MONTHS FROM THE MAILING IDENTIFY OF THE MONTH OF THE	DATE OF THIS COMMUNICATIO .136(a). In no event, however, may a reply be tild d will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. mely filed I the mailing date of this communication. ED (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on 16. This action is FINAL . 2b) ☐ The 3) ☐ Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters, pr		
Disposition of Claims			
4) Claim(s) 1-5 and 21-32 is/are pending in the 4a) Of the above claim(s) is/are withdres 5) Claim(s) is/are allowed. 6) Claim(s) 1-5 and 21-32 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/	awn from consideration.		
Application Papers			
9) The specification is objected to by the Examir 10) The drawing(s) filed on is/are: a) according an applicant may not request that any objection to the Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examir 11).	ccepted or b) objected to by the e drawing(s) be held in abeyance. Se ction is required if the drawing(s) is ob	e 37 CFR 1.85(a). ejected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority application from the International Bures. * See the attached detailed Office action for a list.	nts have been received. nts have been received in Applicat ority documents have been receiv au (PCT Rule 17.2(a)).	ion No ed in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other:	ate	

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Response to Arguments

1. Applicant's arguments, see applicant's remarks, filed on 4/16/09, with respect to the rejection(s) of claim(s) 1, and 22 under 35 U.S.C. 103 (a) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Ellis (U.S. Patent No. 3,718,767, hereinafter Ellis).

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-3, 21, 23-26 are rejected under 35 U.S.C. 102(b) as being anticipated by Ellis.

Per claim 1, Ellis discloses a communication receiver, comprising: a low pass filter (see figure 1 and item 15) that filters a based band signal to produce on-channel received samples (speech channel or channels outputs) by removing out-of-channel signals from the based band signal (see column 4 and lines 55-66); and a processor (see item 21) that processes said base band signal to produce out-of-channel received samples of one or more received signals, said received signals being outside a frequency bandwidth associated with said base band signal (see column 5 and lines 1-15, column 6 and lines 1-44).

Same arguments apply, *mutatis mutandis*, to claim 21.

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Per claim 2, Ellis further teaches a receiver backend portion that processes said on channel and out-of-channel essentially at the same time to decode said on-channel received samples (see figure 1, essentially parallel processing), and determining at least a link quality of said out-of-channel received samples (see column 6 and lines 5-65).

Same arguments apply, mutatis mutandis, to claim 25.

Per claim 3, Ellis further teaches a frequency source (item 6) that generates a first signal at essentially the same frequency as an on-channel frequency (see column 5 and lines 60-64); and a multiplier that mixes an amplified, received signal and the first signal to produce the base band signal (see item 14).

Same arguments apply, *mutatis mutandis*, to claim 26.

Per claim 23, Ellis discloses a communication receiver, comprising: teaches a frequency source (item 6) that generates a first signal at essentially the same frequency as an on-channel frequency (see column 5 and lines 60-64); and a multiplier that mixes an amplified, received signal and the first signal to produce the base band signal (see item 14), a low pass filter (see figure 1 and item 15) that filters a based band signal to produce on-channel received samples (speech channel or channels outputs) by removing out-of-channel signals from the based band signal (see column 4 and lines 55-66); and a processor (see item 21) that processes said base band signal to produce out-of-channel received samples of one or more received signals that can be used to search for pilots of candidate frequencies (see column 5 and lines 1-25, column 6 and lines 1-44).

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Same arguments apply, *mutatis mutandis*, to claim 24.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claim 4, 22, 27, 29, 30-32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ellis in view of Kenney et al (US006009129A, hereinafter Kenney).

Per claim 4, Ellis does not express teach that a low noise amplifier is utilized in the communication receiver. Kenney further teaches that a low noise amplifier (see figure 3 and item 305) received signal comprising an on-channel and out-of-channel signals. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Kenney with Ellis to improve the signal strength with receiving signals.

Same arguments apply, *mutatis mutandis*, to claim 27.

Per claim 22, Ellis discloses a communication receiver, comprising: teaches a frequency source (item 6) that generates a first signal at essentially the same frequency as an on-channel frequency (see column 5 and lines 60-64); and a multiplier that mixes an amplified, received signal and the first signal to produce the base band signal (see item 14), a low pass filter (see figure 1 and item 15) that filters a based band signal to produce on-channel received samples (speech channel or channels outputs) by removing out-of-channel signals from the based band signal (see column 4 and lines 55-66); and a processor (see item 21) that processes said base

band signal to produce out-of-channel received samples of one or more received signals that can be used to search for pilots of candidate frequencies (see column 5 and lines 1-25, column 6 and lines 1-44) and said received signals being outside a frequency bandwidth associated with said base band signal (see column 5 and lines 1-15, column 6 and lines 1-44). Ellis does not express teach that a low noise amplifier is utilized in the communication receiver. Kenney teaches that a low noise amplifier (see figure 3 and item 305) received signal comprising an on-channel and out-of-channel signals. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Kenney with Ellis to improve the signal strength with receiving signals.

Same arguments apply, *mutatis mutandis*, to claims 29 and 32.

Per claim 31, Ellis further teaches a receiver backend portion that processes said on channel and out-of-channel essentially at the same time to decode said on-channel received samples (see figure 1, essentially parallel processing), and determining at least a link quality of said out-of-channel received samples (see column 6 and lines 5-65)

Per claim 30, Ellis further teaches that filtering and processing takes place at essentially at the same time (see figure 1, essentially parallel processing).

6. Claim 5 and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ellis in view of Soliman (US005799005A).

Per claim 5, Ellis does not teach that a number of fingers and a searcher for processing said on-channel and out-of-channel received samples. Soliman teaches such limitation (see figure

4). It would have been obvious to one of ordinary skill in the art at the time the invention was made to have such limitation of a CDMA system to capture signals for communication.

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Same arguments apply, *mutatis mutandis*, to claim 28.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to YUWEN PAN whose telephone number is (571)272-7855. The examiner can normally be reached on 8-5 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duc Nguyen can be reached on 571-272-7503. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.